

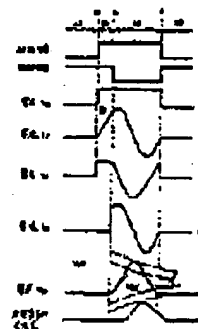
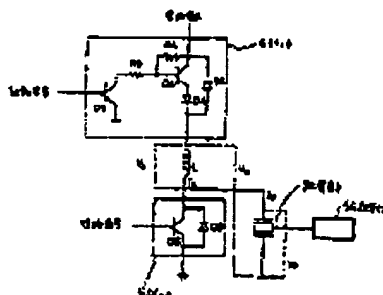
DRIVING APPARATUS FOR PIEZOELECTRIC ELEMENT

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Inventor: YODA SEI; others: 01
Applicant: JUKI CORP
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Abstract of JP2058280

PURPOSE: To obtain the title apparatus wherein a large peak current does not generate, and a small-sized, light-weight and simplified structure is enabled by installing a first switching means to apply a power supply voltage to a piezoelectric element, a coil and a series circuit of them, and a second switching means to short the connection point of the piezoelectric element and the coil to the ground potential.

CONSTITUTION: A first switching means 4 to apply a power supply voltage to a piezoelectric element 3, a coil L connected in series with the element 3 and a series circuit of the element 3 and the coil L, and a second switching means 5 to short the connection point of the coil L and the element 3 to the ground potential. During the non-driving period to of the piezoelectric element 3, the switching means 4 is opened and the connection point of the piezoelectric element and the coil L is shorted to the ground potential. At the first stage t1 of the driving period of the piezoelectric element 3, the first switching means is closed, while the connection point of the piezoelectric element 3 and the coil L is grounded by the second switching means 5, and then, at the second stage t2 of the driving period, the second switching means 5 is controlled so as to be put into the open state.



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